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(54) Magnetic recording medium and its manufacturing method

(57) A magnetic recording medium with a high re-

regions in which the magnetic interactions between the

ferromagnetic layers (31, 33) exhibit ferromagnetism (F)

and regions that exhibit anti-ferromagnetism (AF). The

ferromagnetic regions are used for recording tracks, and

the anti-ferromagnetic regions function as guard bands.

In this manner track density is increased without rough-

ening the surface of the recording medium.

FIG. 5B

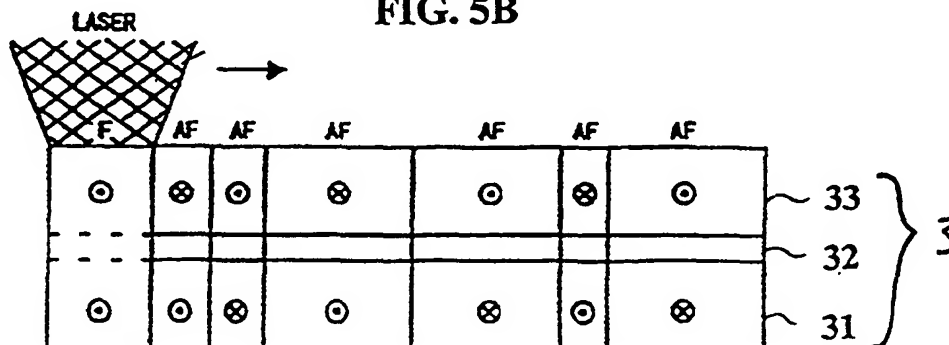


FIG. 5C

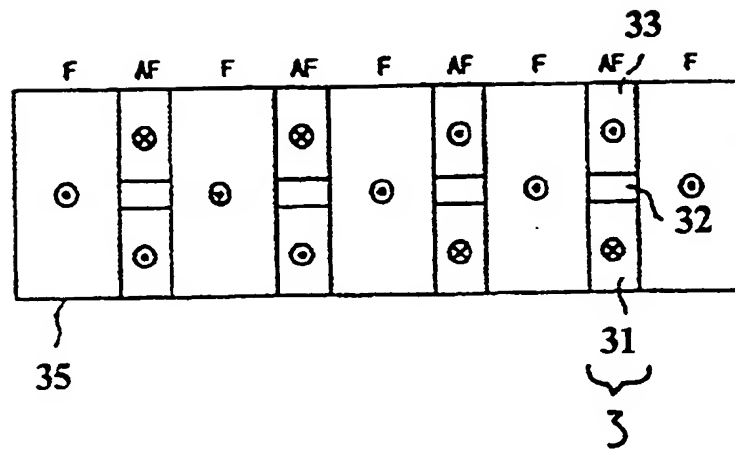


FIG. 1A

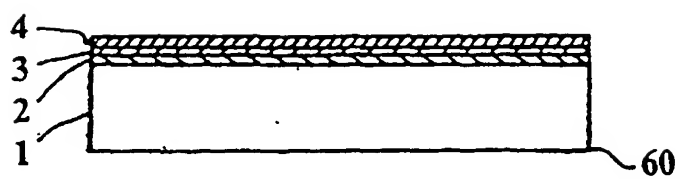
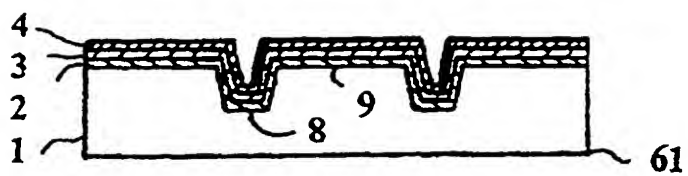


FIG. 1B



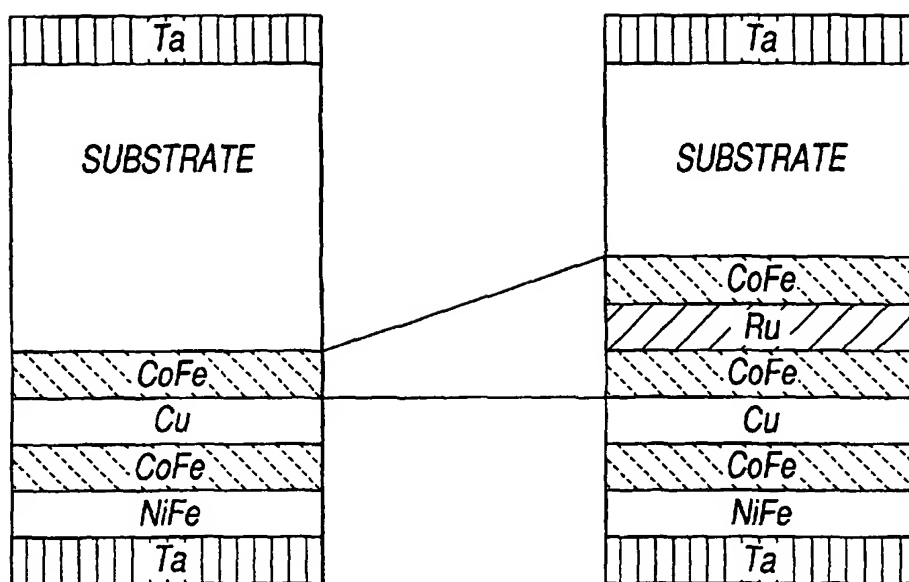


Fig.2A

Fig.2B

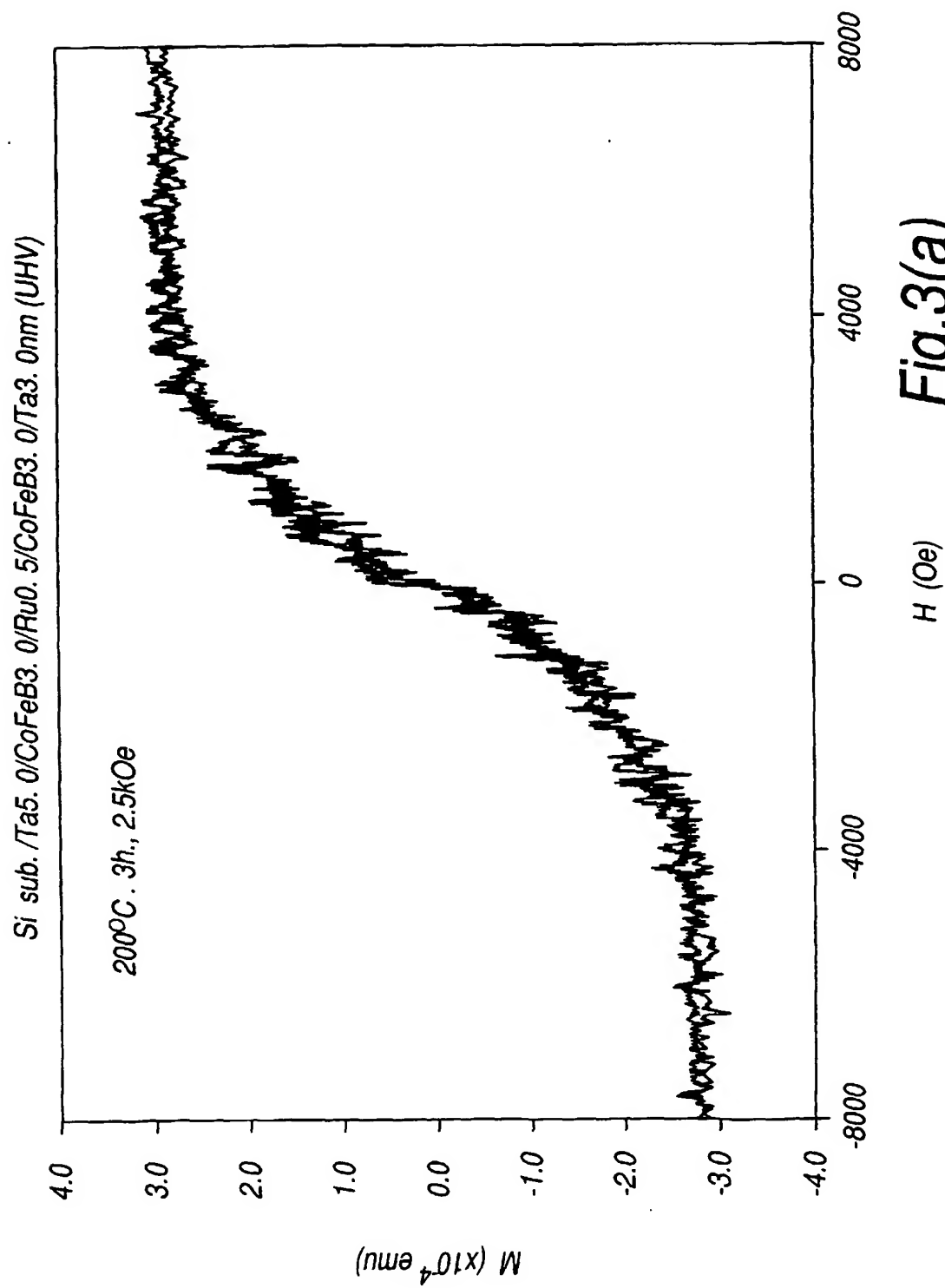
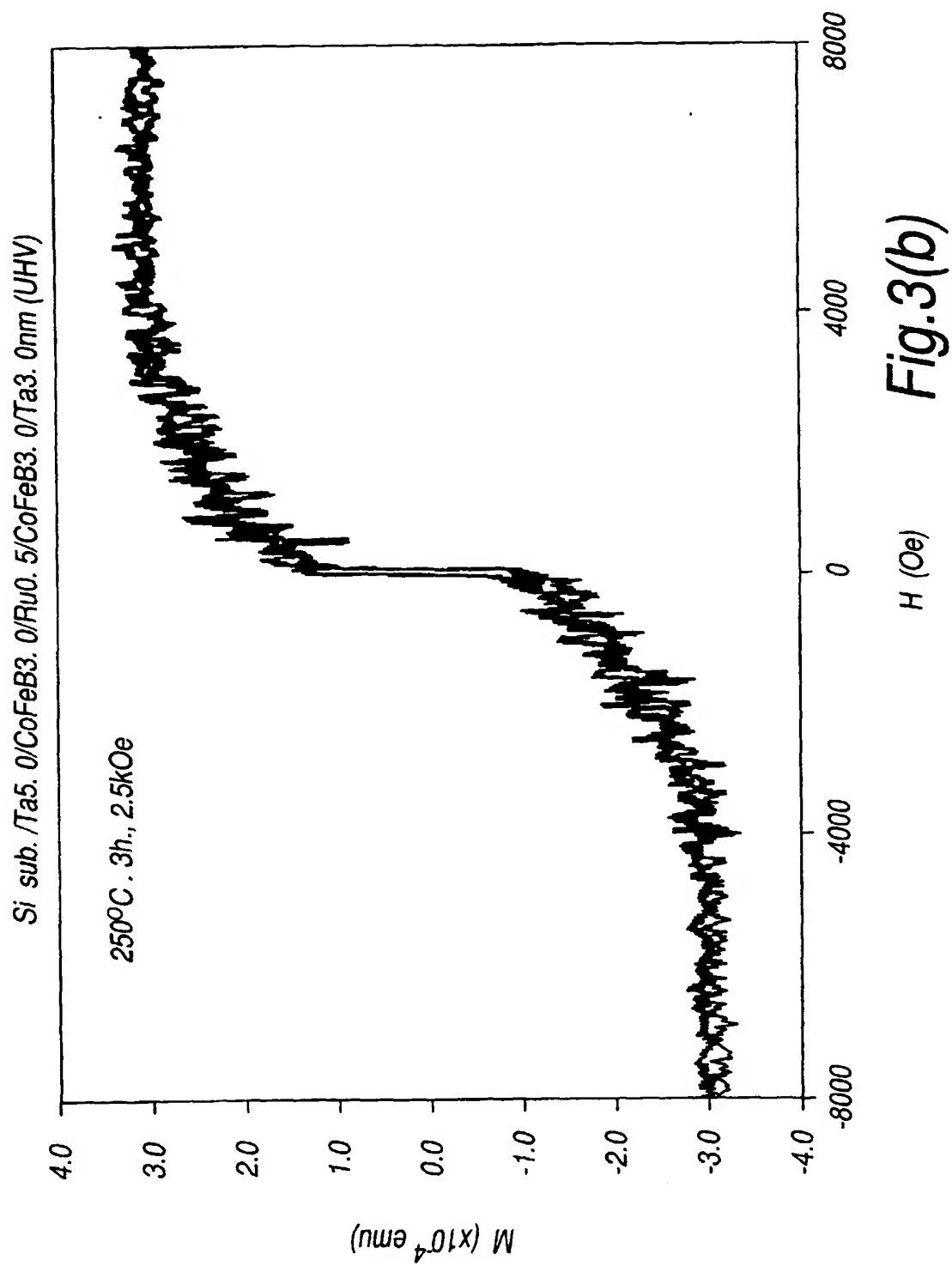


Fig.3(a)



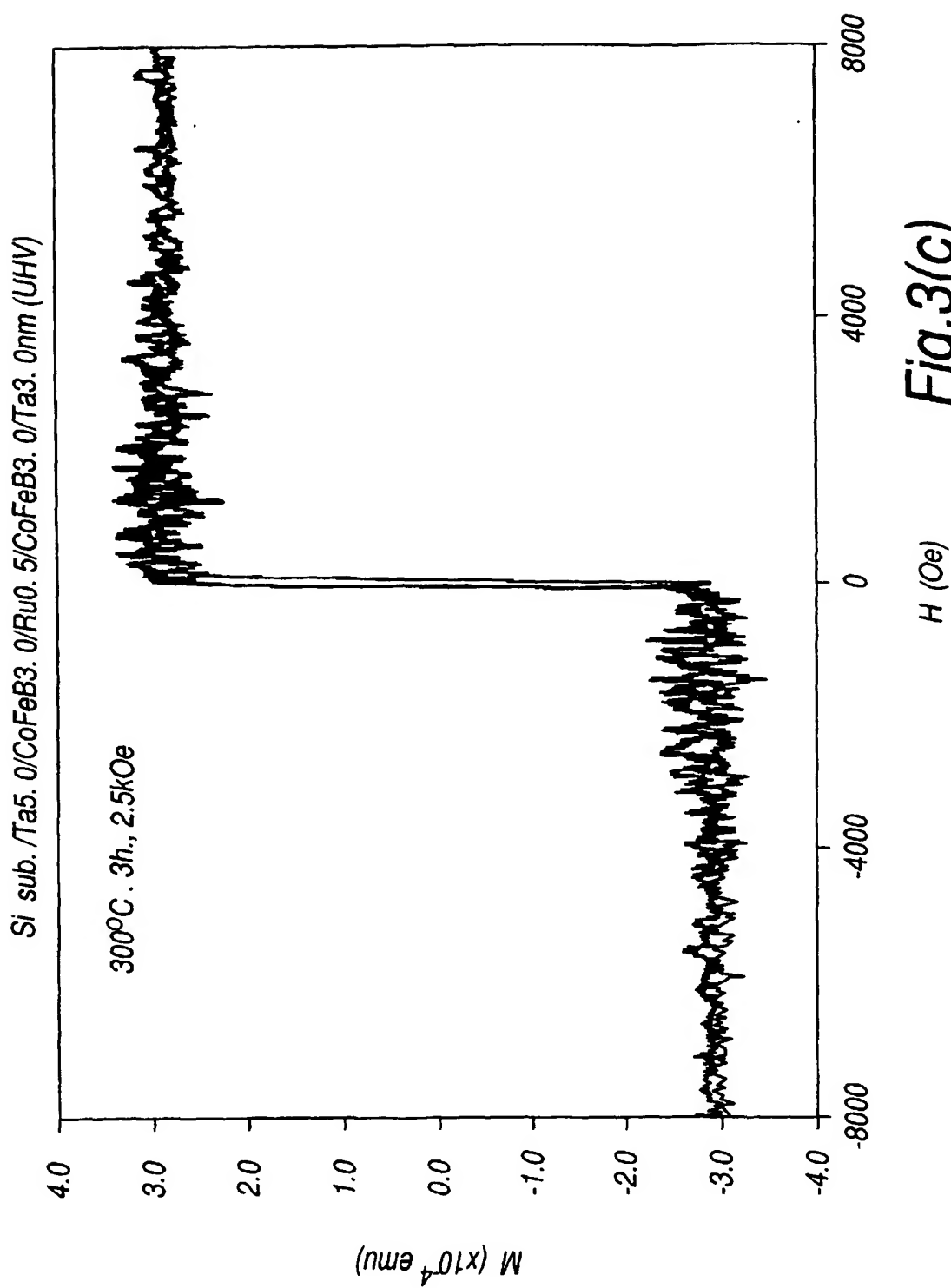


Fig.3(c)

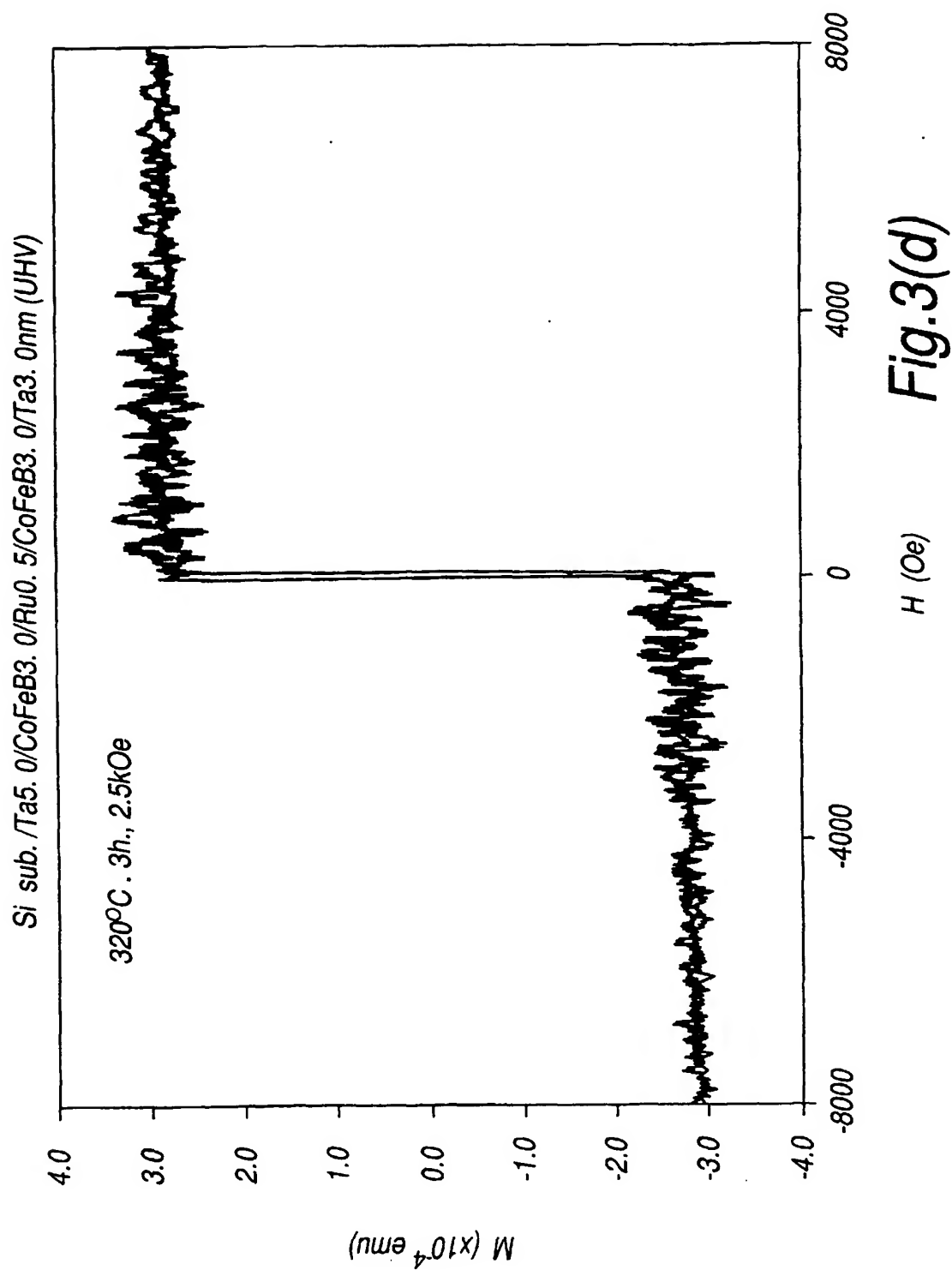


FIG. 4

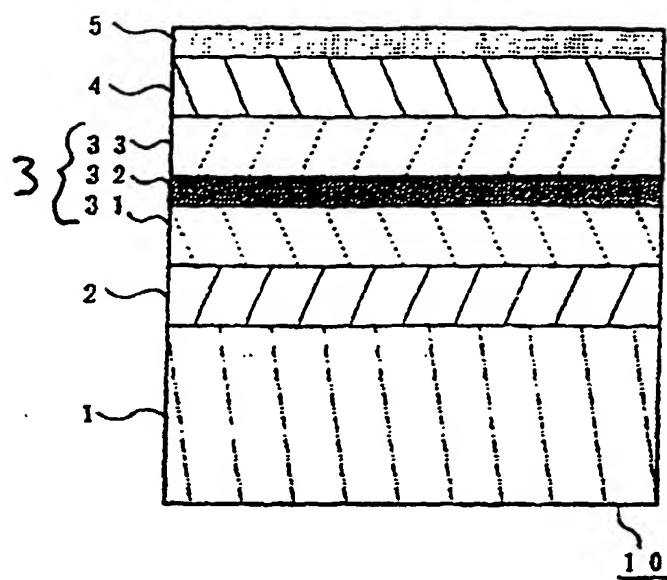


FIG. 5A

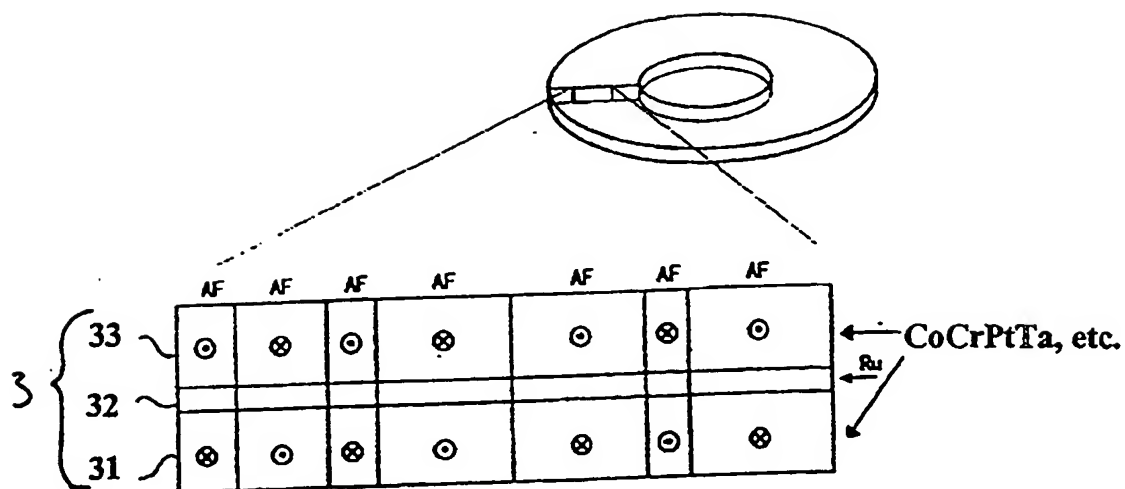


FIG. 5B

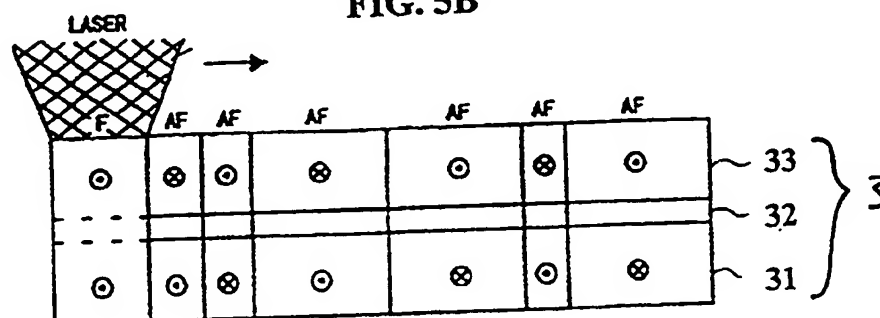


FIG. 5C

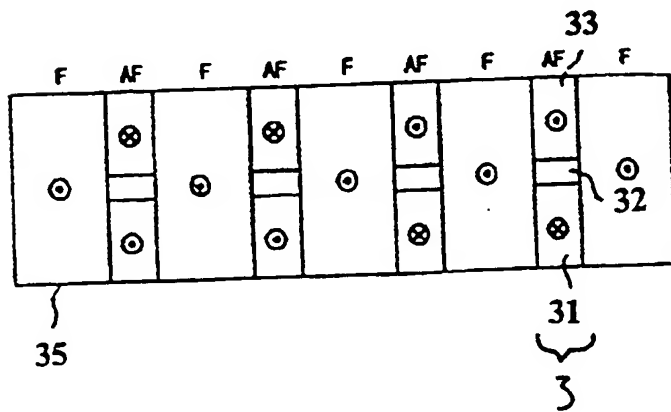


FIG. 6

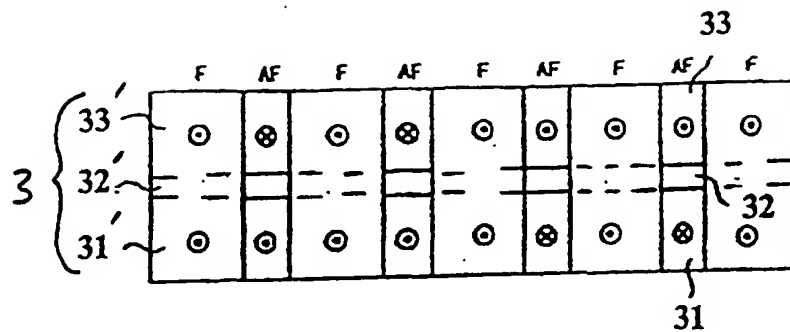


FIG. 7

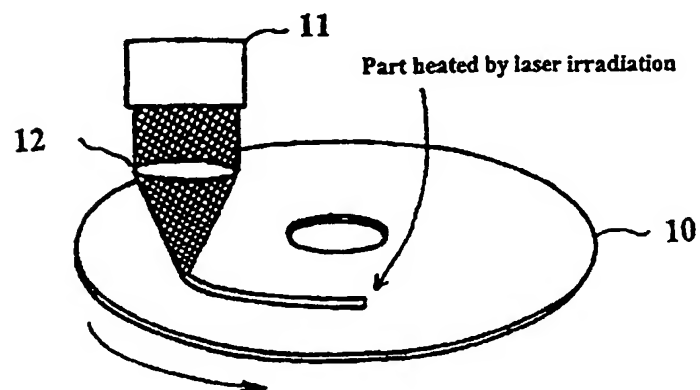


FIG. 8

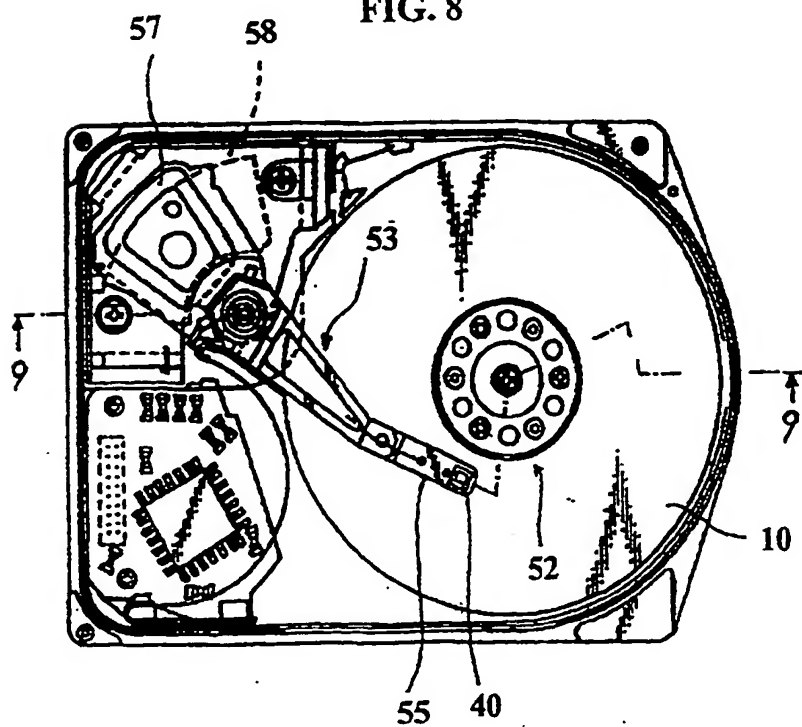


FIG. 9

